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1. AF12-BT06: Innovative Electro Optic Signature Exploitation for Recognition Advancements

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: This topic seeks innovative methods for deriving a sparse set of physical target features that can be used for exploitation of air to ground signature data collected from electro-optic measurement systems including EO, IR and LADAR. DESCRIPTION: Current methods for exploiting EO signature data include statistical pattern recognition techniques and model based approaches. Model-bas ...

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2. AF12-BT07: Miniaturized, Power Efficient C-band Telemetry

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop a miniaturized, power efficient C-band telemetry (TM) transmitter with performance comparable to current state of the art miniaturized S-band transmitters. DESCRIPTION: A miniaturized TM subsystem for an airborne transmitter is needed in the 1-2 cubic inch form factor to support existing efforts to miniaturize flight test instrumentation. C-band transmitter RF devices are ...

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3. AF12-BT08: Compact, Low-Cost THz Test System

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop a compact, low-cost test system with integrated control of temperature, electric field, and magnetic field for non-destructive characterization of novel electronic materials and devices at THz frequencies. DESCRIPTION: The region from 0.1 THz (1011 Hz) to 10 THz (1013 Hz) is a largely unexplored region of the electromagnetic spectrum. The lower end of this region, 94 GHz, i ...

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4. AF12-BT09: Game-Theoretic based Decision Support Tools for Persistent Space Denial

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop new game decision models and efficient computational algorithms for autonomous space systems with the capabilities for self defense when there are potential adversarial strikes. DESCRIPTION: Former Air Force Space Command (AFSPC) Commander General Lance Lord defined space situation awareness (SSA) in simple terms:"The foundation of Space Superiority is Space Situation Aware ...

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5. AF12-BT10: Cryodeposit Mitigation and Removal Techniques for Radiometric Calibration Chambers

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop materials and instruments for cryodeposit mitigation and removal in radiometric calibration chambers. DESCRIPTION: A better understanding of the cryodeposition process is required such that techniques can be developed to successfully remove cryodeposits that can be such a problem in test chamber performance. Water ice layers on the order of 100nm (and greater) can signific ...

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6. AF12-BT11: High-resolution Solar irradiance EUV Spectrum Forecast

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop a solar irradiance spectrum forecast toolset that can accurately determine current and future high-resolution solar extreme ultraviolet irradiance spectra using near real-time solar observations. DESCRIPTION: The solar spectral irradiance at the top of the atmosphere is the main energy input to Earth"s thermosphere. It excites, dissociates and ionizes the neutral constitue ...

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7. AF12-BT12: Characterization of the aero-structure environment of a scaled fighter at transonic conditions

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop a full aircraft (scaled fighter sized) test articles for transonic aeroelastic research. Collect test article wind tunnel and other performance data and demonstrate utility for CSE tool application and CFD validation. DESCRIPTION: Physical understanding and modeling of real world full aircraft dynamics is required in order to support test and evaluation of future aircraft ...

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8. AF12-BT13: Subaperture Adaptive Optics for directed energy phased arrays

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop an adaptive optics system using a fiber laser array as the spatial phase correction system within the subaperture of an array of discrete telescopes. DESCRIPTION: Recent advances in laser array weapons (a system of discrete telescopes) may drive the subapertures to a diameter larger than Fried diameter. In addition to inter-subaperture phasing (between subapertures) this ...

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9. AF12-BT14: Adaptive multi-sensor wide area situational awareness system

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop machine learning technology that can significantly improve warfighter wide area situational awareness based on multiple sensors. DESCRIPTION: Layered sensing enables situational awareness (SA) about an area of interest (AOI) by providing multiple high-resolution views of the area. SA in a wide area of operations is particularly challenging as the sensor resources have to b ...

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10. AF12-BT15: New Paradigms in High Pressure Combustion Dynamics Prediction and Control

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop new paradigms in high pressure combustion dynamics that can render conventional approaches obsolete. Explore innovative applications of emerging research in methods to extract key models and information from large data sets. DESCRIPTION: Advanced combustion systems are becoming increasingly dependent on factors which are controlled by the dynamics of the system. The combust ...

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